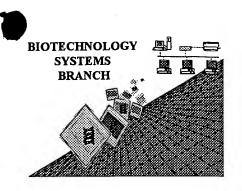
## Exhibit B

# RAW SEQUENCE LISTING ERROR REPORT



FILE COPY

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

08/484312

Art Unit / Team No. :

3/22/99

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

#### RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:46:59

INPUT SET: S31121.raw

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

Does Not Comply Corrected Diskette Needed 1 SEOUENCE LISTING 2 3 (1) General Information: 5 (i) APPLICANT: Hauptman, et al. (ii) TITLE OF INVENTION: THE RECEPTORS, THE BINDING BINDING PROTEINS, AND DNAS CODIN 7 steiten 3 on Even bunnary Sheet (iii) NUMBER OF SEQUENCES:64 10 (iv) CORRESPONDENCE ADDRESS: 11 12 (A) ADDRESSEE: John J. McDonnell 13 (B) STREET: 300 S. Wacker Drive 14 (C)CITY:Chicago 15 (D)STATE: IL 16 (E) COUNTRY: USA 17 (F)ZIP:60606 18 Suggestion: Consult Seguree Rule for Wabel format (V) COMPUTER READABLE FORM: 19 20 (A) MEDIUM TYPE: Floppy disk 21 (B) COMPUTER: IBM PC compatible 22 (C) OPERATING SYSTEM: PC-DOS/MS-DOS 23 (D) SOFTWARE: ASCII 24 25 (vi) CURRENT APPLICATION DATA: 26 (A) APPLICATION NUMBER: 08/484,312 27 (B) FILING DATE: June 7, 1995 (C) CLASSIFICATION: 28 29 (viii) ATTORNEY/AGENT INFORMATION: 30 (A) NAME: John J. McDonnell 31 (B) REGISTRATION NUMBER: 26,949 32 (C) REFERENCE/DOCKET NUMBER: 98,385-A 33 34 35 (ix) TELECOMMUNICATION INFORMATION: (A) TELEPHONE: 312-913-0001 (B) TELEFAX: 312-913-9808 37

#### **ERRORED SEQUENCES FOLLOW:**

38

39 (2) INFORMATION FOR SEQ ID NO:1:

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:46:59

INPUT SET: S31121.raw (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1365 bases (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: ATGGGCCTCT CCACCGTGCC TGACCTGCTG CTGCCACTGG TGCTCCTGGA 50 GCTGTTGGTG GGAATATACC (2) INFORMATION FOR SEQ ID NO:2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 483 bases Jan evon (B) TYPE: nucleic acid (C) STRANDEDNESS:single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2: 50 TTGCTGTACC AAGTGCCACA A GATAGTGTGT GTCCCCAAGG AAAATATATC CACCCTCAAA ATAATTCGAT (2) INFORMATION FOR SEQ ID NO:3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 455 amino acids (B) TYPE polypeptide (1) topol Of 1 in set major ory leding Nego (xi) sequence description: seq 10 no:3: Met Gly Leu Ser Thr Val Pro Asp Leu Leu Pro Leu Val Leu Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu 

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:46:59

INPUT SET: S31121 mw

														IN	NPUT SET: S31121.raw
91	Asn	Gly	Thr	Val	His	Leu	Ser	Cys	Gln	Glu	Lys	Gln	Asn	_	_
92		-			155			_		160					165
93	Cys	Thr	Cys	His	Ala	Gly	Phe	Phe	Leu	Arg	Glu	Asn	Glu	Cys	Val
94	_		-		170	_				175				_	180
95	Ser	Cys	Ser	Asn	Cys	Lys	Lys	Ser	Leu	Glu	Cys	Thr	Lys	Leu	Cys
96		•			185	-	•			190	•		-		195
97	Leu	Pro	Gln	Ile	Glu	Asn	Val	Lys	Gly	Thr	Glu	Asp	Ser	Gly	Thr
98					200			-	-	205		-		_	210
99	Thr	Val	Leu	Leu	Pro	Leu	Val	Ile	Phe	Phe	Gly	Leu	Cys	Leu	Leu
100					215					220	_		_		225
101	Ser	Leu	Leu	Phe	Ile	Gly	Leu	Met	Tyr	Arg	Tyr	Gln	Arg	Trp	Lys
102					230	_			_	235	_		_	_	240
103	Ser	Lys	Leu	Tyr	Ser	Ile	Val	Cys	Gly	Lys	Ser	Thr	Pro	Glu	Lys
104		_		_	245			-	_	250					255
105	Glu	Gly	Glu	Leu	Glu	Gly	Thr	Thr	Thr	Lys	Pro	Leu	Ala	Pro	Asn
106		_			260					265					270
107	Pro	Ser	Phe	Ser	Pro	Thr	Pro	Gly	Phe	Thr	Pro	Thr	Leu	Gly	Phe
108				•	275			_		280					285
109	Ser	Pro	Val	Pro	Ser	Ser	Thr	Phe	Thr	Ser	Ser	Ser	Thr	Tyr	Thr
110					290					295					300
111	Pro	Gly	Asp	Cys	Pro	Asn	Phe	Ala	Ala	Pro	Arg	Arg	Glu	Val	Ala
112					305					310					315
113	Pro	Pro	Tyr	Gln	Gly	Ala	Asp	Pro	Ile	Leu	Ala	Thr	Ala	Leu	Ala
114					320					325					330
115	Ser	Asp	Pro	Ile	Pro	Asn	Pro	Leu	Gln	Lys	Trp	Glu	Asp	Ser	Ala
116					335					340					345
117	His	Lys	Pro	Gln	Ser	Leu	Asp	Thr	Asp	Asp	Pro	Ala	Thr	Leu	Tyr
118					350					355					360
119	Ala	Val	Val	Glu	Asn	Val	Pro	Pro	Leu	Arg	Trp	Lys	Glu	Phe	Val
120					365					370					375
121	Arg	Arg	Leu	Gly	Leu	Ser	Asp	His	Glu	Ile	Asp	Arg	Leu	Glu	
122					380				_	385					390
123	Gln	Asn	Gly	Arg		Leu	Arg	Glu	Ala		Tyr	Ser	Met	Leu	
124					395	_				400					405
125	Thr	Trp	Arg	Arg		Thr	Pro	Arg	Arg		Ala	Thr	Leu	Glu	
126	_				410					415	_		_	_	420
127	Leu	Gly	Arg	Val		Arg	Asp	Met	Asp		Leu	Gly	Cys	Leu	
128		_	_	_	425	_			_	430		_	_	_	435
129	Asp	Ile	GLu	GLu		Leu	Cys	GTÀ	Pro		Ala	Leu	Pro	Pro	
130	_	_	_	_	440					445					450
131	Pro	Ser	Leu	Leu	_										
132					455										
133															
134	(2)	TNEC	י א א מי	TT ON	FOR	SEV.	TD N	10.4							
134	(2)	TME	YKMA.	LION	FUK	SEQ	ז עד	4U i 4 i	•						,
136	/ i \	QEO!	IENCI	יעח,	ים אם ו	'ERIS	יייד ריי	z .							e w
130	(1)	2500		· CHA	TUNC	. E.K.I.S	, 1103	٠.						1 N	

(B) TYPE:polypeptide

138 139

141

sangrow

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:

<sup>137</sup> (A) LENGTH:161 amino acids

<sup>140</sup> (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn 142

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:00

TA

		INPUT SET: S31121,raw
	143	5 10 15
	144	Ser Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn
	145	20 25 30
	146	Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu
	147	35 40 45
	148	Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu
	149	50 55 60
	150	Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser
	151	65 70 75
	152	Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg Lys Asn
	153	80 85 90
	154	Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn
	155	95 100 105
	156	Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
	157	110 115 120
	158	Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg
	159	125 130 135
	160	Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu
	161	140 145 150
	162 163	Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn 155 160
	164	133 100
	104	(2) INFORMATION FOR SEQ ID NO:5:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:157 bases (B) TYPE:nucleic acid (C) STRANDEDNESS:single (D) TOPOLOGY:linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
	165	(2) INFORMATION FOR SEQ ID NO:5:
	166	1 Maria
	167	(i) SEQUENCE CHARACTERISTICS:
>	168	(A) LENGTH:157 bases
	169	(B) TYPE: nucleic acid $\int \int \int \int \int \int \partial u  du  du  du  du  du  du  du $
	170	(C) STRANDEDNESS: single
	171	(D) TOPOLOGY:linear
	172	
	173	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
	174	<u> </u>
	175	CAGGGGAAA ATATTCACCC TCAAATAAT TCGATTTGCT GTACCAAGTG 50 CCACAAAGG AAACTACTTG
	176	
	177	(2) INFORMATION FOR SEQ ID NO:6:
	178	
	179	(i) SEQUENCE CHARACTERISTICS:
>	180	(A) LENGTH: 13 amino acids
>	181	
	182	(B) TYPE: polypeptide and (D) 706LOGY: and suspense
> <sup>.</sup>	183	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
	184	
	185	Asp Ser Val Xaa Pro Gln Gly Lys Tyr Ile His Pro Gln
	186	5 10
	187	
	100	(A) TWOONAMTON TOD OTO TO WO T
	188	(2) INFORMATION FOR SEQ ID NO:7:
	189	/i) GEOLIENGE GUADAGMEDICHIGG.
	190 <b>191</b>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH:11 amino acids
>	191	(A) LENGTH:11 amino acids (B) TYPE:polypeptide
_	- 7 -	(%) *** Tipopopopopopopopopopopopopopopopopopopo

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:00

		141 01 3E1. 331121.14W
	193	
>	194	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
	195	
	196	Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
	197	5 10
		3
	198	
	199	(2) INFORMATION FOR SEQ ID NO:8:
	200	
	201	(i) SEQUENCE CHARACTERISTICS:
>	202	(A) LENGTH: 12 amino acids
>	203	(B) TYPE:polypeptide $\wedge M$
	204	(A) LENGTH:12 amino acids (B) TYPE:polypeptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
>	205	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
	206	
	207	Glu Asn Glu Cys Val Ser Cys Ser Asn Cys Lys
	208	5 10
	209	
	207	$\cdot$
	210	(2) INFORMATION FOR SEQ ID NO:9:
	211	
	212	/ L ADAUDUGD GULDLAMEDIAMIAA
		(1) SEQUENCE CHARACTERISITES:
>	213	(A) LENGTH:13 amino acids
>	214	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH:13 amino acids (B) TYPE:polypeptide
	215	
>	216	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
	217	
	218	Tyr Ile His Pro Gln Xaa Asn Ser Ile Xaa Xaa Xaa Lys
	219	(2) (- use the hunk for all requires
	220	(C) - we the hunk for all sequences
	221	(11) INFORMATION FOR SEQ ID NO:10: -
	222	
	223	(i) SEQUENCE CHARACTERISTICS:
>	224	(A) LENGTH:14 amino acids
>	225	(B) TYPE:polypeptide More
	226	
>	227	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
	228	(,
	229	Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn Asn Lys
	230	5 10
	231	
	201	
>	232	(2) INFORMATION FOR SEQ ID NO:11:
-	233	In an amendada and mak an mater.
	234	(i) SEQUENCE CHARACTERISTICS:
		(I) DECORATE CHARACTERISTICS.
>	235	(A) LENGTH:15 amino acids (B) TYPE:polypeptide
>	236	(B) TYPE:polypeptide
	237	
>	238	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
	239	
	240	Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp Arg
	241	5 10 15
	242	

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:01

		INPUI SEI: S31121.raw
	292	•
	293	(i) SEQUENCE CHARACTERISTICS:
>	294	(A) LENGTH:18 amino acids
>	295	(B) TYPE:polypeptide
•	296	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH:18 amino acids (B) TYPE:polypeptide
>	297	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
	298	
	299	Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr
	300	5 10 15
	301	Xaa Xaa Arg
	302	
	303	
	304	(2) INFORMATION FOR SEQ ID NO:17:
	305	
	306	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH:14 amino acids  (B) TYPE:polypeptide  (Wi) SEQUENCE DESCRIPTION: SEO ID NO.17:
>	307	(A) LENGTH: 14 amino acids
>	308	(B) TYPE:polypeptide
	309	$\mathcal{N}$
>	310	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
	311	
	312	Gln Asn Thr Val Cys Thr Xaa His Ala Gly Phe Phe Leu Arg
	313	5 10
	314	
	315	(2) INFORMATION FOR SEQ ID NO:18:
	316	
	317	(i) SEQUENCE CHARACTERISTICS:
>	318	(A) LENGTH: 14 amino acids
>	319	(B) TYPE:polypeptide
	320	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH:14 amino acids (B) TYPE:polypeptide
>	321	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
	322	
	323	Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu Asn
	324	5 10
	325	·
	326	(2) INFORMATION FOR SEQ ID NO:19:
	327	/=/ ==================================
	328	(i) SEQUENCE CHARACTERISTICS:
>	329	(A) LENGTH:13 amino acids
>	330	(A) LENGTH:13 amino acids (B) TYPE:polypeptide
	331	(2) III 2. polypopulae
>	332	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
•	333	/> magaman numbers store mag to mo. *>.
	334	Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln
	335	5 10
	336	3
	330	
	481	(2) INFORMATION FOR SEQ ID NO:32:
	482	- · · · · · · · · · · · · · · · · · · ·
	483	(i) SEQUENCE CHARACTERISTICS:
>	484	(A) LENGTH:14 amino acids
-		• • • • • • • • • • • • • • • • • • • •

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:00

		HAFUI SEI. SSIIZI, TUN
-	243	(2) INFORMATION FOR SEQ ID NO:12:
	244	2
	245	(i) SEQUENCE CHARACTERISTICS:
->	246	(A) LENGTH:13 amino acids
	247	(B) TYPE:polypeptide
	248	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH:13 amino acids  (B) TYPE:polypeptide  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
_		AND STOURNESS PROGRESSION OF THE
->	249	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
	250	
	251	Gly Thr Tyr Ley Tyr Asn Asp Cys Pro Gly Pro Gly Gln
	252	5 10 .
	253	
	254	(2) INFORMATION FOR SEQ ID NO:13:
	255	(2) INFORMATION FOR DEQ ID NO.13.
		(i) GROVENGE GUADAGMEDIGMIGG.
_	256	(i) SEQUENCE CHARACTERISTICS:
->	257	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH:13 amino acids  (B) TYPE:polypeptide
->	258	(B) TYPE:polypeptide
	259	<i>J'</i>
->	260	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
	261	
	262	Glu Met Gly Gln Val Glu Ile Ser Xaa Xaa Xaa Val Asp
	263	5 10
	264	
	265	(2) INFORMATION FOR SEQ ID NO:14:
	266	
	267	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 amino acids (B) TYPE: polypeptide
->	268	(A) LENGTH: 20 amino acids
->	269	(B) TYPE:polypeptide
	270	
->	271	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
•	272	(,
	273	Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp Arg
	274	
	275	
		Asp Thr Val Cys Gly
	276	20
	277	
	278	(2) INFORMATION FOR SEQ ID NO:15:
	279	-
	280	(i) SEQUENCE CHARACTERISTICS:
->	281	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH:19 amino acids
		(A) Mypernolymontide
	282	(B) TYPE:polypeptide
_	283	4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
·>	284	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
	285	
	286	Tyr Ile His Pro Gln Xaa Asn Ser Ile Cys Cys Thr Lys Cys His
	287	5 10 15
	288	Lys Gly Xaa Tyr
	289	· · · · · · · · · · · · · · · · · · ·
	290	·
	-	
	291	(2) INFORMATION FOR SEQ ID NO:16:
		· ·

### RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:01

INPUT SET: S31121.raw (B) TYPE:polypeptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32: Glu Cys Gly Ser Gly Ser Phe Thr Ala Ser Glu Asn Asn Lys (2) INFORMATION FOR SEQ ID NO:33: (i) SEQUENCE CHARACTERISTICS: same (A) LENGTH: 14 amino acids (B) TYPE:polypeptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33: Glu Cys Gly Ser Gly Ser Phe Thr Ala Ser Cys Asn Asn Lys (2) INFORMATION FOR SEQ ID NO:46: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:51 amino acids (B) TYPE:polypeptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46: Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Ley Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Gly Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn Asn Lys (2) INFORMATION FOR SEQ ID NO:47: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH:158 bases (B) TYPE: nucleic acid (C) STRANDEDNESS:single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47: CAGGGGAAAT ATATTCACCC TCAAAATAAT TCGATTTCGT GTACCAAGTC 50 GCACAAAGGA ACCTACTTGT A

762 (2) INFORMATION FOR SEQ ID NO:55:

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:01

			INTO I SELL SSILLITUM
	764	(i) SEQUENCE CHARACTERISTICS:	
>	765	(A) LENGTH: 63 bases	
	766	(B) TYPE:nucleic acid	
	767	(C) STRANDEDNESS:single	
	768	(D) TOPOLOGY:linear	,
	769		/
	770	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	(/
	771		V
	772	AGCTCTAGAG ATTCGCGGCC GCTCGAGGTA CCGGATCCAT CGATGTCGAC	50 CTGCAGAAGC TTG
	773		
	774	(2) INFORMATION FOR SEQ ID NO:56:	
	775		
	776	(i) SEQUENCE CHARACTERISTICS:	
>	777	(A) LENGTH: 64 bases	
	778	(B) TYPE:nucleic acid	
	779	(C) STRANDEDNESS:single	
	780	(D) TOPOLOGY:linear	
	781	/-/	/
	782	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	/
	783	(AI) DEGORNEE DESCRIPTION. DEG ID NO.30.	V
	784	CTAGCAAGCT TCTGCAGGTC GACATCGATG GATCCGGTAC CTCGAGCGGC	50 CGCGAATTCT CTAG
	78 <del>1</del>	CIAGCARGCI ICIGCAGGIC GACAICGAIG GAICCGGIAC CICGAGCGGC	JU CGCGAATICT CTAG
	765		
	810	(2) INFORMATION FOR SEQ ID NO:59:	
	811		
	812	(i) SEQUENCE CHARACTERISTICS:	
>	813	(A) LENGTH: 81 bases	
•	814	(B) TYPE: nucleic acid	
	815	(C) STRANDEDNESS:single	
	816	(D) TOPOLOGY:linear	
	817	(b) Toronografical	/
	818	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	/
	819	(XI) SEQUENCE DESCRIPTION. SEQ ID NO:39.	4
	820		50 CAAACAGACA CCATGGGCCT C
	821	CACAGTCGAC TTACATTTGC TTCTGACACA ACTGTGTTCA CTAGCAACCT	TO CAAACAGACA CCATGGGCCT C
	821		
	870	(2) INFORMATION FOR SEQ ID NO:64:	
	871		
	872	(i) SEQUENCE CHARACTERISTICS:	
	873		
/	874		
	875	(B) TYPE:nucleic acid (C) STRANDEDNESS:single	
		· · ·	
	876	(D) TOPOLOGY:linear	
	877	And A GROUPING PROGRAMMENT ON A GROUP NO CA	
	878	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:	
	879	·	
	880	GTCCAATTAT GTCACACC	18
	881		
	882	(2) INFORMATION FOR SEQ ID NO:65:	
	883	(2) Intommitton for SBQ ID NO.03.	
	884	(i) SEQUENCE CHARACTERISTICS:	
	- <b></b>	,	

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:02

INPUT SET: S31121.raw

															II!	NPUT !	SET: S	31121.ra	w		
>	885	(A)	LEN	GTH:	1334	base	es														
	886	(B)	TYPI	∃:nu⊲	cleid	c ac	id														
	887	(C)	STR	ANDE	DNES:	S:si	ngle														
	888			DLOG			•														
	889	•																/			
	890	(xi)	) SE	QUEN	CE DI	ESCR	[PTI	ON:	SEQ I	D NO	0:65	:						./			
	891	, ,		-					_									U			
	892	GAA	TTCT	CTG (	SACTO	GAGG	CT C	CAGT	rctg	G CC	rttg	GGT	TCA	AGAT	CAC		50	TGGGAC	CAGG	CCGTG	AΤ
	893																				
>	894	TAGO	CTGT	CTG (	3C												212				
	895																				
	896	ATG	GGC	CTC	TCC	ACC	GTG	CCT	GAC	CTG	CTG	CTG	CCA	CTG	GTG	TTC	257				
	897	Met	Glv	Leu	Ser	Thr	Val	Pro	Asp	Leu	Leu	Leu	Pro	Leu	Val	Leu					
	898		2			5					10					15					
	899					_															
	900	CTG	GAG	CTG	TTG	GTG	GGA	АТА	TAC	CCC	TCA	GGG	GTT	ATT	GGA	CTG	302				
	901								Tyr						_						
	902					20	1		- 1 -		25	1			2	30					
	903																			•	
	904	GTC	CCT	CAC	СТА	GGG	GAC	AGG	GAG	AAG	AGA	GAT	AGT	GTG	TGT	CCC	347				
	905								Glu												
	906					35		5		-1-	40				- 2	45					
	907																				
	908	CAA	GGA	AAA	TAT	ATC	CAC	CCT	CAA	AAT	AAT	TCG	ATT	TGC	TGT	ACC	392				
	909								Gln												
	910		2		- 2 -	50					55			- 2 -	- 2 -	60					
	911																				
	912	AAG	TGC	CAC	AAA	GGA	ACC	TAC	TTG	TAC	AAT	GAC	TGT	CCA	GGC	CCG	437				
	913								Leu										•		
	914	-4				65		<b>4</b> -		- 4	70		- 4		-	75					
	915																				
	916	GGG	CAG	GAT	ACG	GAC	TGC	AGG	GAG	TGT	GAG	AGC	GGC	TCC	TTC	ACC	482				
	917								Glu												
	918	-		_		80	•	,		•	85		-			90					
	919																				
	920	GCT	TCA	GAA	AAC	CAC	CTC	AGA	CAC	TGC	CTC	AGC	TGC	TCC	AAA	TGC	527				
	921	Ala	Ser	Glu	Asn	His	Leu	Arq	His	Cys	Leu	Ser	Cys	Ser	Lys	Cys					
	922					95		_		-	100		-		•	105					
	923																				
	924	CGA	AAG	GAA	ATC	GGT	CAG	GTG	GAG	ATC	TCT	TCT	TGC	ACA	GTG	GAC	572				
	925								Glu												
	926	_	•			110					115		•			120					
	927																				
	928	CGG	GAC	ACC	GTG	TGT	GGC	TGC	AGG	AAG	AAC	CAG	TAC	CGG	CAT	TAT	617				
	929								Arg												
	930	_	-			125	-	-		-	130		-			135					
	931																				
	932	TGG	AGT	GAA	AAC	CTTT	TTC (	CAG	rgc 1	TTC A	AAT :	rgc A	AGC (	CTC S	rgc (	CTC	662				
	933					Leul	he (	3ln (	Cys E	he i	Asn (	Cys S	Ser I	Leu (	Cys I	Leu					
	934	P				140	`	'			.145			11		150 4		1	_	1	
	935						Spe	nus ,	orrea	~ 4	- N	Am	hick	phe	- 11	(34	u v	s a go	ap i	1-	
	936	ААТ	GGG	ACC	GTG	CAC	CTC	TCC	TGC	CAG	GAG	AAA	CAG	AAC	ACC	GTG	707	110			
	937					His	Leu	Ser	Cys	Gln	Glu	Lvs	Gln	Asn	Thr	Val		XLL A	egue	ree,	
	•		1	<b></b>					- 1 -			-1-			<b></b>	·		i a gi Lle s	d.	•	
																	1	chara	XQ. 16	بعددو	W

separate sequences must be slow (see 1.82260) of Sequence Rules)

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:02

															<b>VPUT</b>	SET: S31121.	r
938					155					160					165		
939 940	шаа	NOO	maa	a a m	GCA	aam	mma	mmm	am s	3.013	<b>C</b> 3 3		a.a	mam	ama	750	
941					Ala											752	
942	Cys	1111	Cys	nis	170	GLY	FILE	FILE	Lea	175	GIU	ASII	GIU	Cys	180		
943					170					1/5					100		
944	TOO	ருமு	አረም	አአሮ	TGT	AAC	***	ACC	CMC.	GAC	TICC	N.C.C	אאמ	mm/C	TOO	797	
945					Cys											131	
946	Ser	Cys	Der	ASII	185	цуз	цуз	261	nea	190	cys	1111	пåэ	геа	195		
947					103					170					1)3		
948	ста	מממ	CAG	λ ψψ	GAG	ልልጥ	СПП	λλC	aac	ልሮሞ	GAG	GAC	ሞሮል	aac	<b>ACC</b>	842	
949					Glu											042	
950					200			-,-	1	205			501	1	210		
951																	
952	ACA	GTG	CTG	TTG	CCC	CTG	GTC	АТТ	TTC	ттт	GGT	СТТ	TGC	СТТ	тта	887	
953					PrqI												
954				-						220					225		
955						-) g	Ψ.	<i>!</i>									
956	TCC	CTC	CTC	TTC	ATT	GGT	TTA	ATG	TAT	CGC	TAC	CAA	CGG	TGG	AAG	932	
957	Ser	Leu	Leu	Phe	Ile	Gly	Leu	Met	Tyr	Arg	Tyr	Gln	Arg	Trp	Lys		
958					230	_			_	235	_		_	_	240		
959																	
960	TCC	AAG	CTC	TAC	TCC	ATT	GTT	TGT	GGG	AAA	TCG	ACA	CCT	GAA	AAA	977	
961	Ser	Lys	Leu	Tyr	Ser	Ile	Val	Cys	Gly	Lys	Ser	Thr	Pro	Glu	Lys		
962					245					250					255		
963																	
964																1022	
965	Glu	Gly	Glu	Leu	Glu	Gly	Thr	Thr	Thr	_	Pro	Leu	Ala	Pro			
966					260					265					270		
967																	
968																1067	
969	Pro	ser	Pne	Ser	Pro	Thr	Pro	GTÀ	Pne		Pro	unr	Leu	GTÀ			
970					275					280					285		
971 972	N CITT	000	ama	000	a cim	maa	3.00	mma	3.00	maa	100	maa	3.00	mam	***	1110	
973					Ser											1112	
974	Ser	FIU	Val	PIO	290	per	1111	FIIE	1111	295	per	Ser	1111	ıyı	300		
975					200					2,5					300		
976	CCC	GGT	GAC	тст	CCC	AAC	արար	GCG	GCT	CCC	CGC	ΔGΔ	GAG	стс	GCA	1157	
977					Pro												
978		,		-7-	305					310	9	5			315		
979																	
980	CCA	CCC	TAT	CAG	GGG	GCT	GAC	CCC	ATC	CTT	GCG	ACA	GCC	CTC	GCC	1202	
981					Gly												
982			•		320		-			325					330		
983																	
984	TCC	GAC	CCC	ATC	CCC	AAC	CCC	CTT	CAG	AAG	TGG	GAG	GAC	AGC	GCC	1247	
985	Ser	Asp	Pro	Ile	Pro	Asn	Pro	Leu	Gln	Lys	Trp	Glu	Asp	Ser	Ala		
986		-			335					340	_		-		345		
987																	
988																1292	
989	His	Lys	Pro	Gln	Ser	Leu	Asp	Thr	Asp	Asp	Pro	Ala	Thr	Leu	Tyr		
990					350					355					360		

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:02

```
991
 992
       GCC GTG GTG GAG AAC GTG CCC CCG TTG CGC TGG AAGGAATTC
                                                                     1334
 993
       Ala Val Val Glu Asn Val Pro Pro Leu Arg Trp
 994
                       365
 995
 996
       (2) INFORMATION FOR SEQ ID NO:66:
 997
 998
 999
       (i) SEQUENCE CHARACTERISTICS:
1000
       (A) LENGTH: 371 amino_acids
1001
       (B) TYPE:polypeptide
1002
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:
1003
1004
      Met Gly Leu Ser Thr Val Pro Asp Leu Leu Pro Leu Val Leu
1005
1006
                                             10
       Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu
1007
1008
                        20
                                             25
1009
       Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro
1010
      Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr
1011
1012
                        50
                                             55
1013
      Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro
1014
                                             70
                        65
      Gly Gln Asp The Asp Cys Arg Glu Cys Gly Ser Gly Ser Phe Thr
1015
1016
                        80
                                             85
1017
      Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys
1018
                                            100
                        95
      Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
1019
1020
                       110
                                            115
                                                                 120
      Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr
1021
1022
                       125
                                            130
1023
       Trp Ser Glu Asn Leuphe Gln Cys Phe Asn Cys Ser Leu Cys Leu
                       1402 grape /
1024
                                            145
1025
      Asn Gly Thr Val His Leu Ser'Cys Gln Glu Lys Gln Asn Thr Val
1026
                       155
                                            160
1027
      Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val
1028
                                            175
                       170
1029
      Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys
1030
                                            190
                                                                 195
                       185
1031
       Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser Gly Thr
1032
                       200
                                            205
1033
       Thr Val Leu Leu ProLeu Val Ile Phe Phe Gly Leu Cys Leu Leu
                       215 L gon!
1034
                                            220
       Ser Leu Leu Phe Ile GTy Leu Met Tyr Arg Tyr Gln Arg Trp Lys
1035
1036
                                            235
1037
       Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys
1038
                       245
                                            250
1039
      Glu Gly Glu Leu Glu Gly Thr Thr Lys Pro Leu Ala Pro Asn
1040
                       260
                                            265
      Pro Ser Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe
1041
1042
                       275
                                            280
                                                                 285
```

1091

1092

1093

(B) TYPE: nucleic acid

(C) STRANDEDNESS:single
(D) TOPOLOGY:linear

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:03

```
INPUT SET: S31121.raw
1043
      Ser Pro Val Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr
1044
                       290
                                            295
1045
      Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala
1046
                       305
                                            310
      Pro Pro Tyr Gln Gly Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala
1047
1048
                       320
                                            325
      Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys Trp Glu Asp Ser Ala
1049
1050
                                            340
      His Lys Pro Gln Ser Leu Asp Thr Asp Asp Pro Ala Thr Leu Tyr
1051
1052
                       350
                                            355
1053
      Ala Val Val Glu Asn Val Pro Pro Leu Arg Trp
1054
1055
1056
      (2) INFORMATION FOR SEQ ID NO:67:
1057
1058
      (i) SEQUENCE CHARACTERISTICS:
1059
      (A) LENGTH: 6464 bases
1060
      (B) TYPE: nucleic acid
1061
      (C) STRANDEDNESS: single
      (D) TOPOLOGY: linear
1062
                                                                       Land returns
1063
1064
      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:
1065
      TCGACATTGA TTATTGACTA GTTATTAATA GTAATCAATT ACGGGGTCAT 50 / TAGTTCATAG CCCATATATG GAGTTCCGCG TTACATAACT TACGGTAAAT 100 GGCCCGCCTC GCTGACCGCC C
1066
1067
1068
      CTGGCATTAT GCCCAGTACA TGACCTTATG GGACTTTCCT ACTIGGCAGT 350 ACATCTACGT ATTAGTCATC G
      AGAACCCACT GCTTAACTGG CTTATCGAAA TTAATACGAC TCACTATAGG 650 GAGACCCAAG CTTCTGCAGG T
1069
      AGGTTTTACT TGCTTTAAAA AACCTCCCAC ACCTCCCCT GAACCTGAAA 1250 CATAAAATGA ATGCAATTGT T
1070
      GTTAAAAGAT GTATCCTGGA CCTGCCAGAC CTGGCCATTC ACGTAAACAG 1550 AAGATTCCGC CTCAAGTTCC G
1071
      CCCACCACCT GGCCCGCCC CGTTGAGGAC AGAAGAAACC CCGGGCAGCC 1850 GCAGCCAAGG CGGACGGGTA G
1072
      GCGGCCACGC CGGACTGGGC GGGGCCGGCC TGGTGGAGGC GGAGTCTGAC 2150 CTCGTGGAGG CGGGGCCTCT G
1073
      TGGCTGGATT GGGTTAGGGA AACCGAGGCG GTTCGCTGAA TCGGGTCGAG 2450 CACTTGGCGG AGACGCGCGG G
1074
      GAACGAGTTC AAGTACTTCC AAAGAATGAC CACCACCTCC TCAGTGGAAG 2750 GTAAACAGAA CCTGGTGATT A
1075
      AGGCCATCTC AGACTCTTTG TGACAAGGAT CATGCAGGAA TTTGAAAGTG 3050 ACACGTTCTT CCCAGAAATT G
1076
      GCAGAGCTAG AACTCAGACT TTAAAGAAAA TTAGATCAAA GTAGAGACTG 3650 AATTATTCTG CACATCAGAC T
1077
      ATGCATCTCA ATTAGTCAGC AACCAGGTGT GGAAAGTCCC CAGGCTCCCC 4000 AGCAGGCAGA AGTATGCAAA G
1078
      CTGTAGCGGC GCATTAAGCG CGGCGGGTGT GGTGGTTACG CGCAGCGTGA 4255 CCGCTACACT TGCCAGCGCC C
1079
      GTCGCCCTTA TTCCCTTTTT TGCGGCATTT TGCCTTCCTG TTTTTGCTCA 4850 CCCAGAAACG CTGGTGAAAG T
1080
      GAAAAGCATC TTACGGATGG CATGACAGTA AGAGKATTAT GCAGTGCTGC 5150 CATAACCATG AGTGATAACA C
1081
1082
      TGGATGGAGG CGGATAAAGT TGCAGGACCA CTTCTGCGCT CGGCCCTTCC 5450 GGCTGGCTGG TTTATTGCTG A
      AAAAGGATCT AGGTGAAGAT CCTTTTTGAT AATCTCATGA CCAAAATCCC 5750 TTAACGTGAG TTTTCGTTCC A
1083
      GTAGCACCGC CTACATACCT CGCTCTGCTA ATCCTGTTAC CAGTGGCTGC 6100 TGCCAGTGGC GATAAGTCGT G
1084
      GGAAACGCCT GGTATCTTTA TAGTCCTGTC GGGTTTCGCC ACCTCTGACT 6400 TGAGCGTCGA TTTTTGTGAT G
1085
1086
1087
      (2) INFORMATION FOR SEQ ID NO:68:
1088
1089
      (i) SEQUENCE CHARACTERISTICS:
      (A) LENGTH: 2173 bases
1090
```

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999

TIME: 13:47:03

															I	VPUT S	SET: S31121.raw
	1094																/
	1095	(Xi	) SE	QUEN	CE D	ESCR:	IPTI	ON:	SEQ :	ID N	0:68	:					./
	1096																
	1097	GAA'	rtcc'	TTT '	TCTC	CGAG'	rt t'	TCTG.	AACT	C TG	GCTC	ATGA	TCG	GGCT'	TAC		50 TGGATACGAG AATCCTG
	1098																
>	1099				CCC												289
	1100	Met	GTÀ	Leu	Pro	_	Val	Pro	GTA	Leu		Leu	Ser	Leu	Val		
	1101					5					10					15	
	1102								<b></b>		ma.	~~~	ama		~~~	ama	224
	1103				CTG												334
	1104	Leu	Ата	Leu	Leu		GTĀ	TTE	HIS	Pro		GIY	val	Thr	GTA		
	1105					20					25					30	
	1106	amm	aam	mam	СТТ	aam.	ana	aaa	CAC	***	200	CI N TT	λλΠ	TITE C	mem.	aca	379
	1107				Leu												379
	1108	Val	PIO	Ser	Leu	35	ASP	ALG	GIU	гуз	40	ASP	ASII	теп	Cys	45	
	1109 1110					33					40					43	
	1111	CAG	GGA	A A C	TAT	acc	CAT	CCA	AAG	λλΤ	λλΤ	<b>דרכ</b> כ	ልጥሮ	ጥርሮ	ጥርር	ACC	424
	1112				Tyr											_	323
	1113	9111	GLY	пуз	1 7 1	50	1110	110	Dyb	ADII	55	501	110	Cyb	CVB	60	
	1114					30											
	1115	DAG	TGC	CAC	AAA	GGA	ACC	TAC	TTG	GTG	AGT	GAC	TGT	CCA	AGC	CCA	469
	1116				Lys												
	1117	-1-	-1-		-1-	65		-1-			70	<b>E</b>	- 2 -			75	
	1118																
	1119	GGG	CAG	GAA	ACA	GTC	TGC	GAG	CTC	TCT	CAT	AAA	GGC	ACC	TTT	ACA	514
	1120	Gly	Gln	Glu	Thr	Val	Cys	Glu	Leu	Ser	His	Lys	Gly	Thr	Phe	Thr	
	1121	_				80	_				85	_	-			90	
	1122																
	1123	GCT	TCG	CAG	AAC	CAC	GTC	AGA	CAG	TGT	CTC	AGT	TGC	AAG	ACA	TGT	559
	1124	Ala	Ser	Gln	Asn	His	Val	Arg	Gln	Cys	Leu	Ser	Cys	Lys	Thr	Cys	
	1125					95					100					105	
	1126																
	1127				ATG												604
	1128	Arg	Lys	Glu	Yet		Gln	Val	Glu	Ile	Ser	Pro	Cys	Lys	Ala	Asp	
	1129					110					115	1 ,	ð.		. 1	120	noter
	1130									DU	rugal	741 N	will	uco	<b>~</b> 0	ung	4
>	1131				GTG												649
	1132	Met	Asp	Thr	Vál	_	GTÀ	cys	Lys	rys	Asn	GIN	Pne	GIN	arg	Tyr	
	1133					125					1300	-) M	1 1	mer-	cm,	135	لم
	1134	ama	» am	a.a	3.00	<b>63 m</b>	mma	<b>a.</b> a	mam	ama						_	
	1135 1136				ACG												694
	1136	red	Ser	GIU	Thr	140	File	GIII	Cys	Val	145	Cys	Ser	PIO	Cys	150	•
	1137					140					143					130	
	1136	ልአጥ	מממ	አሮሮ	GTG	ልሮኦ	ልጥሮ	מממ	ጥረም	ΔAC	GAG	ΔΑΛ	CAG	ΔΛα	ΔCC	GTG	739
	1140				Val												, 5,
	1140	HOIL	GIA	TIII	Val	155	116	FIU	Cys	шyз	160	шуз	CIII	V211		165	
	1141					100					100					100	
	1142	ጥርጥ	AAC	ጥርር	CAC	GCA	GGA	ጥጥሮ	ттт	СПР	AGC	GGA	ТАА	GAG	TGC	ACC	784
	1144				His												
	1145	- ] -		- , 5		170	1				175	1			- 1 -	180	
	1146					•					•						

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:04

															IN	PUT	SET: S31121.raw	
	1147	CCT	TGC	AGC	CAC	TGC	AAG	AAA	AAT	CAG	GAA	TGT	ATG	AAG	CTG	TGC	829	
	1148	Pro	Cys	Ser	His	Cys	Lys	Lys	Asn	Gln	Glu	Cys	Met	Lys	Leu	Cys		
	1149					185					190					195		
	1150																	
	1151	CTA	CCT	CCA	GTT	GCA	AAT	GTC	ACA	AAC	CCC	CAG	GAC	TCA	GGT	ACT	874	
	1152	Leu	Pro	Pro	Val	Ala	Asn	Val	Thr	Asn	Pro	Gln	Asp	Ser	Gly	Thr		
	1153																	
	1154			مستميد	Lil So	1 100	دنس	lle 1	291	uu-	use	NA	1 00	fre ,	4m` (	IX) f	EATURE: redu	<u>-</u> ١
>	1155	GCC	cfc'	CTG	TTG	CCT	CTG	GTT	ATC	TTC	CTA	GGT	CTT	TGC	CTT	TTA	919	
	1156	Ala	val	Leu	Leu	Pro	Leu	Val	Ile	Phe	Leu	Gĺv	Leu	Cvs	Leu	Leu		
	1157					215					220	1		- 1 -		225		
	1158																	
	1159	ጥጥር	ጥጥጥ	ΔТС	TGC	ΔͲሮ	ΔGT	СТА	СТС	TGC	CGA	тдт	CCC	CAG	TGG	AGG	964	
	1160												Pro	_			, ,	
	1161	1 110			0,5	230	202	200		0,10	235	- 7 -		·		240		
	1162					230					200					240		
	1163	CCC	NGG	GTC	TAC	TCC	አሞሮ	ידיים ג	ጥረጥ	AGG	САТ	TCA	CCT	CCT	CTC	ΔΔΔ	1009	
	1164												Ala				1007	
	1165	110	AL 9	Val	1 7 1	245	110	116	Cys	ALG	250	Der	AIG	110	<b>*</b> 44	255		
	1166					243					230					233		
	1167	CAC	CTC	CAC	CCT	C A A	CCA	አጥጥ	CTTT	A CITT	220	ccc	CITIA	х ст	CCA	CCC	1054	
	1168												Leu				1034	
	1169	GIU	var	GIU	GIY	260	СТУ	TTE	Val	1111	265	PIO	Leu	1111	PIO	270		
	1170					200					263					2/0		
		тат	» ma	CCA	000	mma	3.00	000	220	000	000	mma	220	000	a com	OMO.	1099	
	1171																1099	
	1172	ser	тте	Pro	ATA		ser	Pro	ASI	PIO		Pne	Asn	Pro	THE			
	1173					275					280					285		
	1174	000	mma	3.00			<b>aa</b> .	~~~	mma	3 CIT	~ m	aam	ama	maa	3 am	100	1144	
	1175																1144	
	1176	GTA	Pne	Ser	Thr		Pro	arg	Pne	ser		Pro	Val	ser	ser			
	1177					290					295					300		
	1178	~~~			~~~	ama	mma	aam.	~~~	. am		<b>m</b> aa	a.a		mma	ama	1100	
	1179																1189	
	1180	Pro	тте	Ser	Pro		Pne	GTÄ	Pro	Ser		Trp	His	Asn	Pne			
	1181					305					310					315	•	
	1182	~~.	~~=	~~.		~~~			~~.		~~~			a. a	a.a.m	ama	1004	
	1183																1234	
	1184	Pro	Pro	vaı	arg		vaı	vaı	Pro	Inr		GTA	Ala	Asp	Pro			
	1185					320					325					330		
	1186	ama	m. a		maa	ama		aam			• ma	~~~		a a m	~~~	~~~	1070	
	1187																1279	
	1188	Leu	Tyr	GTÀ	Ser		Asn	Pro	Val	Pro		Pro	Ala	Pro	vaı	_		
	1189					335					340					345		
	1190																	
	1191																1324	
	1192	Lys	Trp	Glu	Asp		Val	Ala	Ala	Gln		Gln	Arg	Leu	Asp			
	1193					350					355					360		
	1194																	
	1195																1369	
	1196	Ala	Asp	Pro	Ala		Leu	Tyr	Ala	Val	Val	Asp	Gly	Val	Pro			
	1197					365					370					375		
	1198																	
	1199	ACA	CGC	TGG	AAG	GAG	TTC	ATG	CGG	CTC	CTG	GGG	CTG	AGC	GAG	CAC	1414	

1250

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:04

		PATENT APPLICATION US/08/484,312 TIME: 13:47:04
		INPUT SET: S31121.raw
	1200	Thr Arg Trp Lys Glu Phe Met Arg Leu Leu Gly Leu Ser Glu His
	1201	380 385 390
	1202	300
	1203	GAG ATC GAG CGG TTG GAG CTG CAG AAC GGG CGT TGC CTC CGC GAG 1459
	1204	Glu Ile Glu Arc Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu
	1205	395 400 405
	1206	
	1207	GCT CAT TAC AGC ATG CTG GAA GCC TGG CGG CGC CGC ACA CCG CGA 1504
	1208	Ala His Tyr Ser Met Leu Glu Ala Trp Arg Arg Arg Thr Pro Arg
	1209	410 415 420
	1210	
	1211	CAC GAG GCC ACG CTG GAC GTA GTG GGC CGC GTG CTT TGC GAC ATG 1549
	1212	His Glu Ala Thr Leu Asp Val Val Gly Arg Val Leu Cys Asp Met
	1213	425 430 435
	1214	
	1215	AAC CTG CGT GGC TGC CTG GAG AAC ATC CGC GAG ACT CTA GAA AGC 1594
	1216	Asn Leu Arg Gly Cys Leu Glu Asn Ile Arg Glu Thr Leu Glu Ser
	1217 1218	440 445 450
	1218	CCT GCC CAC TCG TCC ACG ACC CAC CTC CCG CGA TAAGGCCACA 1637
	1219	Pro Ala His Ser Ser Thr Thr His Leu Pro Arg
	1221	455 460
	1222	(/
	1223	CCCCCACCTC AGGAACGGGA CTCGAAGGAC CATCCTGCTA GATGCCCTGC 1687 TTCCCTGTGA ACCTCCT
>	1224	GGGAAGTGTG CCATCTGCTC CCAGACAGCT GAGGGTGCCA AAAGCCAGGA 1887
	1225	GAGGTGATTG TGGAGAAAAA GCACAATCTA TCTGATACCC ACTTGGGATG 1937
	1226	CAAGGACCCA AACAAAGCTT CTCAGGGCCT CCTCAGTTGA TTTCTGGGCC 1987
	1227	CTTTTCACAG TAGATAAAAC AGTCTTTGTA TTGATTATAT CACACTAATG 2037
	1228	GATGAACGGT TGAACTCCCT AAGGTAGGGG CAAGCACAGA ACAGTGGGGT 2087
	1229	CTCCAGCTGG AGCCCCCGAC TCTTGTAAAT ACACTAAAAA TCTAAAAGTG 2137
	1230	AAAAAAAAA AAAAAAAAA AAAAAAAAA GAATTC 2173
	1231	
	1232	(2) INFORMATION FOR SEQ ID NO:69:
	1232	(2) INFORMATION FOR SEQ ID NO.03.
	1234	(i) SEQUENCE CHARACTERISTICS:
>	1235	(A) LENGTH: 461 amino acids
>	1236	(B) TYPE:polypeptide
	1237	
>	1238	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:
	1239	
	1240	Met Gly Leu Pro Ile Val Pro Gly Leu Leu Leu Ser Leu Val Leu
	1241	5 10 15
	1242	Leu Ala Leu Leu Met Gly Ile His Pro Ser Gly Val Thr Gly Leu
	1243	20 25 30
	1244	Val Pro Ser Leu Gly Asp Ara Glu Lys Arg Asp Asn Leu Cys Pro
	1245	35 40 45
	1246 1247	Gln Gly Lys Tyr Ala His Pro Lys Asn Asn Ser Ile Cys Cvs Thr
	1247	50 55 60
	1240	

1249 Lys Cys His Lys Gly Thr Tyr Leu Val Ser Asp Cys Pro Ser Pro

1251 Gly Gln Glu Thr Val Cys Glu Leu Ser His Lys Gly Thr Phe Thr

70

65



# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:04

1252					80					85				#1	90
1252 1253	λla	Cor	al n	Acn	His	Wal.	λκα	Cl n	Cuc		802	Crrc	Lvc	mh r	
1253	MIG	Ser	GIN	ASII	95	Val	Arg	GIN	Cys	100	261	Cys	гуз	1111	105
1254	120	ľ v.c	<b>a</b> 1	vo+	Phe	al n	Val	Clu	т1.		Dro	Cuc	T v.c	λla	
1256	Arg	пуз	GIU	166	110	GIII	Val	GIU	116	115	FIU	Cys	Lys	AIG	120
1256	Wot	A cm	Thr	บาไ	Cys	@1 v	Cvc	T we	Tuc		al n	Dho	al n	λrα	
1257	мес	ASP	1111	var	125	СТУ	cys	цуз	гуз	130	GIII	FIIE	GTII	Arg	135
	Γ 011	Cor	<b>01.</b> ,	mb ~	His	Dho	al n	C112	Wal.		Cuc	202	Dro	Cuc	
1259 1260	rea	Ser	GIU	1111	140	File	GIII	Cys	vaı	145	cys	Ser	PIO	Cys	150
1260	Acn	<u>ما بر</u>	Thr	Wal.	Thr	Tla	Bro	Cvc	Tuc		Twe	al n	Acn	Thr	
1261	ASII	GTÅ	THE	νат	155	TTE	PIO	Cys	гус	160	гур	GIII	ASII	1111	165
1262	Cuc	N an	C115	uic	Ala	a1 v	Dho	Dho	LOU		@1 w	Nan	Glu.	Cue	
1263	Cys	ASII	Cys	птэ	170	GIA	FIIE	FIIE	ьец	175	GLY	ASII	GLU	Cys	180
1265	Bro	Cuc	Sor	Uic	Cys	Tue	Tue	λan	al n		Cue	Wat	Tue	T 011	-
1266	PIO	Cys	Ser	nis	185	гуз	цуз	ADII	GIII	190	Cys	Met	пåз	пеп	195
1267	T OU	Dro	Dro	Val	Ala	λen	Val	Thr	λen		al n	Aen	SAT	G1 v	
1268	Leu	FIU	FIU	Val	200	ASII	Val	1111	ASII	205	GIII	чэр	Ser	GLY	210
1269	λla	Val	T 611	T 611	Pro	T.011	Val	Tla	Dhe		Gl v	T.011	Cve	T. 411	
1270	ALG	Val	пеа	Бец	215	nea	Val	116	1110	220	GLY	Dea	Cys	пса	225
1271	Dha	Dhe	Tla	Cue	Ile	Ser	T.011	T.011	Cvs		Tur	Pro	Gln	Trn	
1271	File	riie	116	cys	230	561	Бец	пса	Cys	235	- 7 -	110	0111	111	240
1273	Pro	Δra	Val	Tur	Ser	T۱۵	Tle	Cvs	Δra		Ser	Δla	Pro	Val	
1274	110	n.y	Val	- y -	245	110	110	cys	~~9	250	501	niu		· u _	255
1275	Glu	Val	Glu	Glv	Glu	Glv	Tle	Val	Thr		Pro	Leu	Thr	Pro	
1276	014	,,,	014	1	260	,				265					270
1277	Ser	Ile	Pro	Ala	Phe	Ser	Pro	Asn	Pro		Phe	Asn	Pro	Thr	_ · · -
1278					275					280					285
1279	Glv	Phe	Ser	Thr	Thr	Pro	Ara	Phe	Ser		Pro	Val	Ser	Ser	
1280	1				290		3			295					300
1281	Pro	Ile	Ser	Pro	Val	Phe	Gly	Pro	Ser	Asn	Trp	His	Asn	Phe	Val
1282					305		-			310	-				315
1283	Pro	Pro	Val	Arg	Glu	Val	Val	Pro	Thr	Gln	Gly	Ala	Asp	Pro	Leu
1284				_	320					325	-		-		330
1285	Leu	Tyr	Gly	Ser	Leu	Asn	Pro	Val	Pro	Ile	Pro	Ala	Pro	Val	Arg
1286		-	-		335					340					345
1287	Lys	Trp	Glu	Asp	Val	Val	Ala	Ala	Gln	Pro	Gln	Arg	Leu	Asp	Thr
1288	_	_			350					355		_			360
1289	Ala	Asp	Pro	Ala	Met	Leu	Tyr	Ala	Val	Val	Asp	Gly	Val	Pro	Pro
1290					365					370					375
1291	Thr	Arg	Trp	Lys	Glu	Phe	Met	Arg	Leu	Leu	Gly	Leu	Ser	Glu	His
1292					380					385					390
1293	Glu	Ile	Glu	Arc	Leu	Glu	Leu	Gln	Asn	Gly	Arg	Cys	Leu	Arg	Glu
1294					395					400					405
1295	Ala	His	Tyr	Ser	Met	Leu	Glu	Ala	Trp	Arg	Arg	Arg	Thr	Pro	Arg
1296					410					415					420
1297	His	Glu	Ala	Thr	Leu	Asp	Val	Val	Gly	Arg	Val	Leu	Cys	Asp	Met
1298					425					430					435
1299	Asn	Leu	Arg	Gly	Cys	Leu	Glu	Asn	Ile	Arg	Glu	Thr	Leu	Glu	
1300					440					445					450
1301	Pro	Ala	His	Ser	Ser	Thr	Thr	His	Leu	Pro	Arg				
1302					455					460					
1303					•										

## RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:05

```
1413
1414
       (i) SEQUENCE CHARACTERISTICS:
1415
       (A) LENGTH: 340 amino acids
1416
       (B) TYPE:polypeptide
1417
       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:
1418
1419
      Met Gly Leu Ser Thr Val Pro Asp Leu Leu Pro Leu Val Leu
1420
1421
                                             10
1422
      Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu
1423
1424
      Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro
1425
                        35
1426
1427
      Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr
1428
                                             55
      Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro
1429
1430
                        65
                                            70
1431
      Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr
1432
                        80
                                            85
      Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys
1433
1434
                        95
                                            100
1435
      Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
1436
                       110
                                            115
1437
      Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr
1438
                       125
                                            130
1439
      Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu
1440
                       140
                                            145
      Asn Gly Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val
1441
                                            160
1442
                       155
      Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val
1443
1444
                       170
                                            175
                                                                180
      Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys
1445
1446
                       185
                                            190
                                                                195
      Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser Gly Thr
1447
1448
                       200
                                            205
1449
      Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu Leu
1450
                       215
                                            220
      Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
1451
1452
                                            235
                       230
1453
      Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys
1454
                       245
                                            250
1455
      Glu Gly Glu Leu Glu Gly Thr Thr Lys Pro Leu Ala Pro Asn
1456
                       260
                                            265
                                                                270
1457
      Pro Ser Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe
1458
                       275
                                            280
                                                                285
1459
      Ser Pro Val Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr
1460
                       290
                                            295
1461
      Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala
1462
                       305
                                            310
      Pro Pro Tyr Gln Gly Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala
1463
1464
                       320
      Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys
1465
```

PA	GE:	19
1 1	v.	17

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/484,312

DATE: 03/22/1999 TIME: 13:47:05

OUT CET. C21121 man

1466 1467 1468	335	INPUT SET: S31121,raw 340	
1469	(2) INFORMATION FOR SEQ ID NO:72:		_
1470			
1471	(i) SEQUENCE CHARACTERISTICS:		
1472	(A) LENGTH:19 bases		
1473	(B) TYPE:nucleic acid	1/ 1 a servere 11 Make	
1474	(C) STRANDEDNESS:single	last seguere en ple	
1475	(D) TOPOLOGY:linear		
1476			
1477	(xi) SEQUENCE DESCRIPTION: SEQ ID NO	0:72:	
1478			
1479	GTACTTGAAC TCGTTCCTG	19	
1480			
1481	,		
1482	•	·	
1483		•	
1484			
1485			
1486		•	
1487			





# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/484,312

INPUT SET: S31121.raw

DATE: 03/22/1999 TIME: 13:47:05

Line	Error	Original Text
9	Number of Sequences (64) Doesn't Equal Actual Count (71)	(iii) NUMBER OF SEQUENCES:64
42	Entered (1365) and Calc. Seq. Length (0) differ	(A) LENGTH:1365 bases
54	Entered (483) and Calc. Seq. Length (0) differ	(A) LENGTH:483 bases
66	Entered (455) and Calc. Seq. Length (0) differ	(A) LENGTH:455 amino acids
67	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
69	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
69	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
137	Entered (161) and Calc. Seq. Length (0) differ	(A) LENGTH:161 amino acids
138	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
140	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
140 168	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
	Entered (157) and Calc. Seq. Length (0) differ	(A) LENGTH: 157 bases
180	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH:13 amino acids
181	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
183	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
183	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
191	Entered (11) and Calc. Seq. Length (0) differ	(A) LENGTH:11 amino acids
192	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
194	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
194	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
202	Entered (12) and Calc. Seq. Length (0) differ	(A) LENGTH:12 amino acids
203	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
205	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
205	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
213	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH:13 amino acids
214	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
216	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
216	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:
224	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH: 14 amino acids
225	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
227	Wrong Sequence Number	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
227	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
227	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:
232	Sequence * missing	(12) INFORMATION FOR SEQ ID NO:11:
235	Entered (15) and Calc. Seq. Length (0) differ	(A) LENGTH:15 amino acids
236	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
238	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
238	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:
246	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH: 13 amino acids
247	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
249	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
249	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:
257	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH:13 amino acids
258	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
260	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
260	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:
268	Entered (20) and Calc. Seq. Length (0) differ	(A) LENGTH:20 amino acids
269	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
— <del></del>		/ · / · · · =-1 / L -L





# SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/08/484,312

INPUT SET: S31121.raw

DATE: 03/22/1999

TIME: 13:47:06

Line	Error	Original Text
271	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
271	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:
281	Entered (19) and Calc. Seq. Length (0) differ	(A) LENGTH:19 amino acids
282	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
284	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
284	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:
294	Entered (18) and Calc. Seq. Length (0) differ	(A) LENGTH:18 amino acids
295	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
297	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
297	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:
307	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH:14 amino acids
308	Wrong or Missing Sequence Type	(B) TYPE:polypeptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
310	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:
310	Wrong or Missing Sequence Topology	
318	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH:14 amino acids
319	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
321	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
321	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:
329	Entered (13) and Calc. Seq. Length (0) differ	(A) LENGTH:13 amino acids
330	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
332	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
332	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:
484	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH:14 amino acids
485	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
487	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:
487	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:
495	Entered (14) and Calc. Seq. Length (0) differ	(A) LENGTH:14 amino acids
496	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
498	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:
498	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:
650	Entered (51) and Calc. Seq. Length (0) differ	(A) LENGTH:51 amino acids
651	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
653	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:
653	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:
667	Entered (158) and Calc. Seq. Length (0) differ	(A) LENGTH: 158 bases
765	Entered (63) and Calc. Seq. Length (0) differ	(A) LENGTH:63 bases
777	Entered (64) and Calc. Seq. Length (0) differ	(A) LENGTH:64 bases
813	Entered (81) and Calc. Seq. Length (0) differ	(A) LENGTH:81 bases
873	Entered (30) and Calc. Seq. Length (18) differ	(A) LENGTH:30 bases
885	Entered (1334) and Calc. Seq. Length (1134) differ	(A) LENGTH:1334 bases
894	# of Sequences for line conflicts w/ running total	TAGCTGTCTG GC
1000	Entered (371) and Calc. Seq. Length (0) differ	(A) LENGTH:371 amino acids
1001	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
1003	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:
1003	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:
1059	Entered (6464) and Calc. Seq. Length (50) differ	(A) LENGTH:6464 bases
1090	Entered (2173) and Calc. Seq. Length (1727) differ	(A) LENGTH:2173 bases
1099	# of Sequences for line conflicts w/ running total	ATG GGT CTC CCC ATC GTG CCT GGC CTG CTG CT
	•	

PAGE: 2





# **SEQUENCE VERIFICATION REPORT** PATENT APPLICATION *US/08/484,312*

DATE: 03/22/1999 TIME: 13:47:06

Line	Error	Original Text
1131	Wrong Nucleic Acid Designator	ATG GAC ACC GTG TGT GGC TGC AAG PAG AkC CA
1131	# of Sequences for line conflicts w/ running total	ATG GAC ACC GTG TGT GGC TGC AAG PAG AkC CA
1155	Wrong Nucleic Acid Designator	GCC GIC CTG TTG CCT CTG GTT ATC TTC CTA GGT
1155	# of Sequences for line conflicts w/ running total	GCC GIC CTG TTG CCT CTG GTT ATC TTC CTA GGT
1224	# of Sequences for line conflicts w/ running total	GGGAAGTGTG CCATCTGCTC CCAGACAGCT GAGGG
1235	Entered (461) and Calc. Seq. Length (0) differ	(A) LENGTH:461 amino acids
1236	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
1238	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:
1238	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:
1415	Entered (340) and Calc. Seq. Length (0) differ	(A) LENGTH:340 amino acids
1416	Wrong or Missing Sequence Type	(B) TYPE:polypeptide
1418	Wrong Or Missing Strandedness Value	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:
1418	Wrong or Missing Sequence Topology	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71: